

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: 05/03/01

Date Received: 04/26/01

Project: Metro K. C. Grab, PO# M65868

Date Extracted: 4/27/01

Date Analyzed: 4/27/01

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M65868 104111-01	0.46	0.25	0.33	0.07
Method Blank	<0.05	<0.05	<0.05	<0.05

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

Date of Report: 05/03/01

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Project: Metro K. C. Grab, PO# M65868

### QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 104110-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.38	0.38	0	0-20
Copper	mg/L (ppm)	0.33	0.32	3	0-20
Nickel	mg/L (ppm)	0.37	0.38	3	0-20
Zinc	mg/L (ppm)	0.06	<0.05	nm	0-20

Laboratory Code: 104110-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD (Lim 20)
Chromium	mg/L (ppm)	5	0.38	91	89	80-120	2
Copper	mg/L (ppm)	5	0.33	93	91	80-120	2
Nickel	mg/L (ppm)	10	0.37	95	91	80-120	4
Zinc	mg/L (ppm)	5	0.06	97	94	80-120	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	50	95	101	80-120	6
Copper	mg/L (ppm)	50	98	102	80-120	4
Nickel	mg/L (ppm)	100	102	106	80-120	4
Zinc	mg/L (ppm)	50	103	106	80-120	3

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

104111

## SAMPLE CHAIN OF CUSTODY

KT 4.26.01 AS4

Send Report To Gerard A. Thompson  
 Company Alaska Copper Works  
 Address 628 S. Harbor St  
 City, State, ZIP Seattle WA 98134  
 Phone # 206-382-8529 Fax # 206-382-4309

SAMPLERS (signature) <u>[Signature]</u>	
PROJECT NAME/NO. <u>Metro K.C. Grab</u>	PO # <u>M65868</u>
REMARKS	

Page # _____ of _____
TURNAROUND TIME <input type="checkbox"/> Standard (2 Weeks) <input checked="" type="checkbox"/> RUSH Rush charges authorized by: _____
SAMPLE DISPOSAL <input type="checkbox"/> Dispose after 30 days <input type="checkbox"/> Return samples <input type="checkbox"/> Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	de, cu, ni, zn				
m65868	01	4-25	2:00	H <sub>2</sub> O	1											

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>GERARD A. Thompson</u>	<u>ACW</u>	<u>4-26-01</u>	<u>1:24</u>
Received by: <u>[Signature]</u>	<u>Kate Trefon</u>	<u>FBi</u>	<u>4.26.01</u>	<u>1324</u>
Relinquished by:				
Received by:				



**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

May 3, 2001

**DUPLICATE COPY**

**INVOICE # 01ACU0503-3**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro K. C. Grab, PO# M65868 - Results of testing requested by  
Gerry Thompson for material submitted on April 26, 2001.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc  
by Method 6010B @ \$80 per sample

\$ 80.00

Amount Due .....

\$ 80.00

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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3012 16th Avenue West  
Seattle, WA 98119-2029  
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e-mail: fbi@isomedia.com

May 3, 2001

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

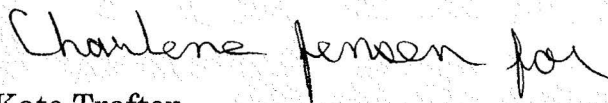
Dear Mr. Thompson:

Included are the results from the testing of material submitted on April 26, 2001 from your Metro K. C. Grab, PO# M65868 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kate Trafton  
Project Manager

Enclosures  
ACU0503R.DOC